Last updated May 22, 2016 ; 'current week' is week ending May 21, 2016
Baseline: Mean % ILI during non—flu weeks for previous three seasons, adding two standard deviations.

Using rapid antigen data, a non-flu week is a period of 2+ consecutive weeks where each one accounted for <2% of the season's total number of specimens that tested positive for influenza.



Week Ending

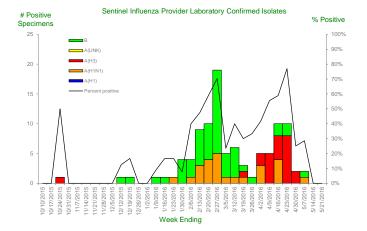
ALLHOSPITALS, Last Updated May 20, 2016

As of 5/20/2016, influenza activity had returned to baseline levels for two consecutive weeks in King County. The 2015-16 influenza season was milder than the past three flu seasons, with fewer reported laboratory-confirmed influenza deaths and fewer influenza outbreaks in long-term care facilities (LTCFs) than were reported in the previous flu year. As defined by rises from baseline across multiple influenza activity indicators, the onset of the 2015-16 season occurred in the first week of January 2016. Peak influenza activity based on emergency department (ED) influenza-like illness (ILI) and laboratory reporting occurred from mid-February 2016 though March, which was later than the past two influenza seasons. This season saw fairly even numbers of influenza A (primarily H1N1) and B; the 2014-15 and 2013-14 influenza seasons showed a predominance of influenza A (H3N2) and influenza A (H1N1), respectively.

Because most persons with severe influenza-related illness are not tested for influenza, routine surveillance data is most useful for tracking trends and unusual disease patterns and not as an indicator of the total number of influenza-related deaths or influenza infections. Special studies are done in representative communities nationally to determine hospitalization and death rates from influenza.

- Influenza deaths: A total of 16 laboratory-confirmed influenza-related deaths have been reported in King County; this is lower than in the past three seasons, where number of deaths reported has ranged from 22 to 43. Forty-four percent of cases were male, and 50% were under age 65 (range: 32 95 years, median: 66 years); no pediatric deaths were reported. Over one-third were attributable to influenza B, which is unusual. Six deaths were attributable to influenza A (H1N1), one to influenza H3, and three to influenza A (untyped). All but one had contributing underlying conditions, half of which were severe. Sixty-three percent had no evidence of influenza vaccine for this season. Estimates have indicated that between 65-256 influenza deaths are likely to occur in King County each flu season, but many go undiagnosed or unreported; during the 2014-15 flu season, it is likely that total influenza-attributable deaths were at the middle of this range.
- Outbreaks in long-term care facilities (LTCF): Sixteen outbreaks were reported from 15 LTCFs, all of which identified at least one laboratory-confirmed case of influenza. This was mid-range compared to the past five flu seasons, where number of LTCF outbreaks reported has ranged from six to 65. Three LTCF outbreaks resulted in one or more deaths. Nine facilities (56%) reported outbreaks attributable to influenza A and 7 (44%) to influenza B.
- Laboratory: King County Public Health Laboratory tested a total of 268 specimens contributed by sentinel influenza providers, 38% of which were positive for influenza. Of the 101 positive specimens, 25 (25%) were typed as A (H1N1), 23 (23%) were A (H3), and 53 (52%) were influenza B.
- Syndromic surveillance: The peak volume of ED visits for ILI was approximately 3.3%, lower than peak levels in the last three influenza seasons. Peak activity occurred during the end of February 2016. ED volume was highest among pediatric age groups with peak visit levels at approximately 14% among children aged two to four years old and 11% among infants under two years old.
- Influenza vaccine effectiveness: The National Vaccine Effectiveness (VE) Network estimate (data through February 12, 2016) for influenza A H1N1 viruses was 51% (95% CI: 25%-69%), and for influenza B was 76% (95% CI: 59%-86%). Across all strains, the combined vaccine effectiveness is estimated at 59% (95% CI: 44%-70%).

		Data for this week		Cumulative data this season since October 4, 2015	
		0		16	
King County	y Outpatient Sentinel Influenza Providers				
	Specimens Submitted	8		276	
	Proportion Positive for Influenza	0.0%		Season Peak: 76.9%	
	A (H1)	0		25	
	A (H3)	0		23	
	A (Unknown)	0		0	
	В	0		53	
Hospital Lal	boratory Influenza Rapid Antigen Test Submissions	3			
	Number of Labs Reporting	0		Weekly Average: 3	
	Number of Specimens Submitted	0		Weekly Average: 185	
	Proportion of Tests Positive for Influenza	No labs rep	orting	Season Peak: 29.4%	
Hospital Em Illness (ILI)	nergency Department (ED) Visits for Influenza-like				
	Proportion of Visits Due to ILI	0.8%		Season Peak: 3.3%	
Respiratory (LCTFs)	Disease Outbreaks at Long-Term Care Facilities	0		16	
	Laboratory-Confirmed LTCF Influenza Outbreaks	0		16	
	Weekly Percent of ED Visits for ILI by Year			Weekly Percent of ED Visits for Influenza.—Like Illness By Age Group	
Percent 61	Legend 2010-11 2011-12 2012-13 - 2015-16 5 yr avg Current	2013 — 14 Baseline week	Percent	Legend	
5- 4- 3- 2-			14 · 12 · 10 · 8 · 6 · 4 ·	Marine Ma	
Note: The char	38 40 42 44 46 48 50 52 1 3 5 7 9 11 13 15 17 19 :  Week  nge from ICD—9 to ICD—10 codes in October 2015 may in  May 22, 2016 ; 'current week' is week ending May 21, 20		04/1¥2015	05/21/2016 05/07/2016 04/09/2016 04/09/2016 04/09/2016 04/09/2016 02/07/2016 02/07/2016 07/07/2016 10/24/2016 09/07/2016 10/24/2016 09/07/	



## Resources

Additional Flu Information, Resources and Surveillance: www.kingcounty.gov/health/flu

UW Virology Laboratory Respiratory Virus Surveillance: http://depts.washington.edu/rspvirus/documents/VD2015-16.pdf

Washington State Influenza Surveillance Update: http://www.doh.wa.gov/Portals/1/Documents/5100/420-100-FluUpdate.pdf

National Influenza Update: <a href="https://www.cdc.gov/flu/weekly/">www.cdc.gov/flu/weekly/</a>

Global Influenza Update: www.who.int/csr/disease/influenza/en/

 $\textbf{Anfluenza-like illness is defined as fever } \underline{\textbf{and}} \ \textbf{cough } \textit{or} \ \textbf{sore throat, or specific mention of influenza in chief complaint or discharge diagnosis}$